

# **Cape Wind Associates LLC**

## **An offshore renewable energy project**

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# Project Introduction

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- Cape Wind Associates, LLC - A joint business venture of Energy Management Inc. and Wind Management, LLC.
- Proven corporate capability and success in power plant generation and wind turbine energy generation.
- Commitment to responsible development of clean and renewable energy resources.
- Combined financial and technology resources to promote and develop the first offshore wind energy project in Massachusetts and the United States.

# Project Outline

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- Wind turbines producing 420MW of emission free power on Horseshoe Shoal in Nantucket Sound
- Grid spacing of approximately 1/2 by 1/3 mile
- 80 m (260 feet) hub height
- 130 m (426 feet) height (at the blade tip)

# *Why Offshore Wind?*

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- Offshore wind resources are generally better than those onshore
- Recent upscaling of commercial wind turbines have contributed to economies of scale
- Available offshore areas can accommodate larger scale projects that can service regional load centers



# ***Why Nantucket Sound?***

- Nantucket Sound is ideally suited for offshore wind energy development
  - protected shallow water environs
  - optimal prevailing wind velocities and directions
  - close proximity to shoreline landfalls and electrical interconnects
  - geographic proximity to service regional load demand



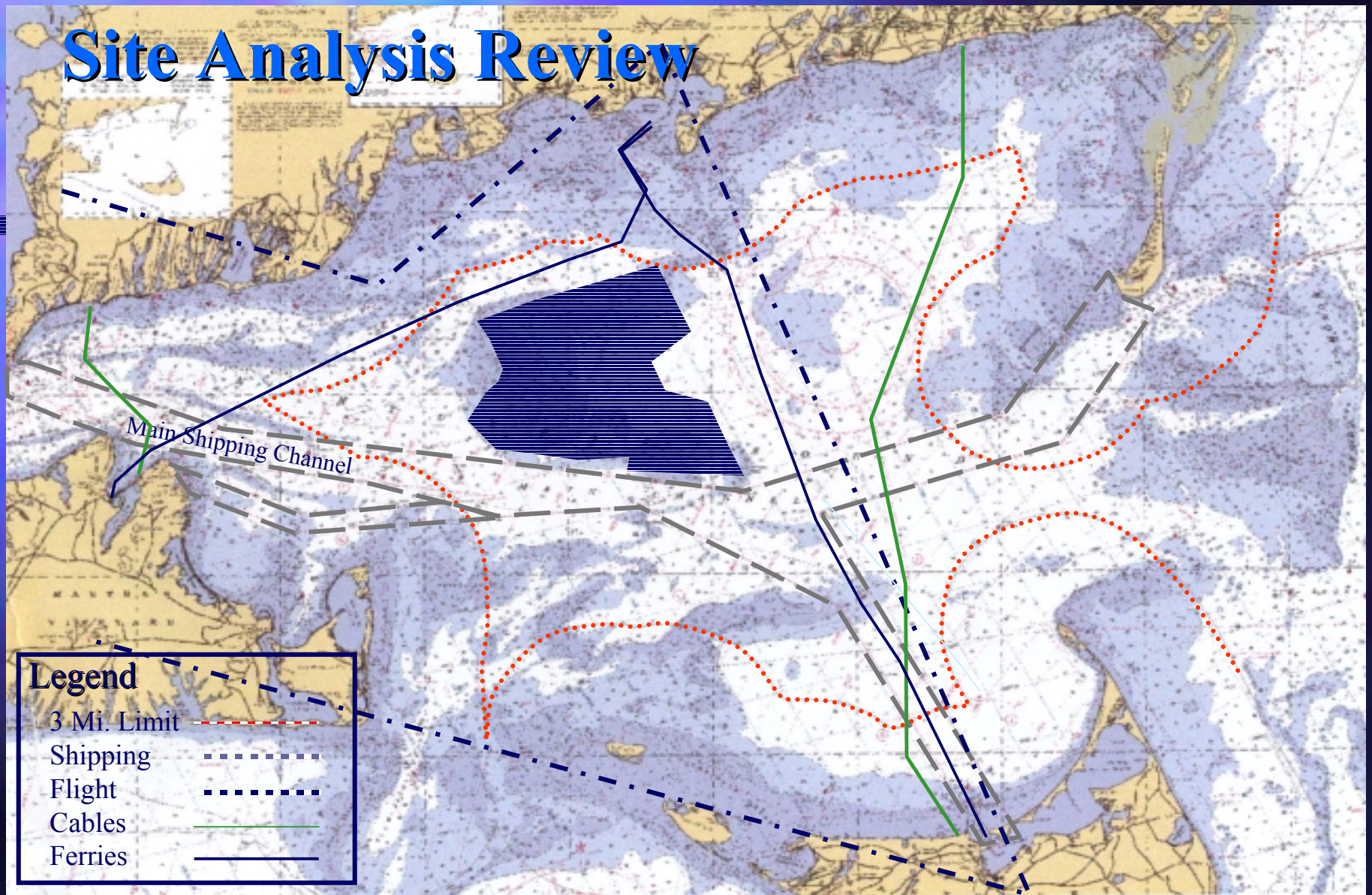
A nautical chart showing a coastal area with various depth soundings, navigational markers, and labels. The chart is overlaid with a grid of latitude and longitude lines. The title 'Why Horseshoe Shoal?' is written in a large, bold, blue serif font across the upper portion of the chart.

# ***Why Horseshoe Shoal?***

- Water depths less than 50 feet
- Minimizes conflicts with existing water-sheet uses
- Environmental compatibility
- Economically feasible location



# Site Analysis Review





# NEG Micon turbines in Sweden



Cape Wind Associates LLC



# Tunø Knob off-shore wind farm



**30 turbines : 3-5 miles away**



©BWEA



## Middelgrunden from about 5 miles



Utgrunden from about 6 miles





# Key Project Issues

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- Visual Impact Acceptance
- Renewable Portfolio Standards
  - Long Term Market Stability
- 5 Year Extension of Production Tax Credit
- Power Pool Dispatch Rules



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